

**ABSTRACT****~~PHASE NOISE REDUCTION DEVICE~~**

A device for reducing the phase noise of a signal ( $S_{in}$ ), coming from a quasiperiodic source of fundamental frequency  $f_0$ , comprises a superconducting circuit with an active line for voltage pulse transmission by transferring quanta of flux  $\phi_0$ . This circuit is defined so as to have a characteristic frequency  $f_c$  such that  $0.3f_c$  is less than or equal to the fundamental frequency  $f_0$  of the quasiperiodic signal ( $S_{in}$ ) applied as input, and delivers, as output, a voltage pulse signal of fundamental frequency  $f_0$ .

**Figure 2**